Volume 7
Bulletin P128 *The 1959 Iowa corn yield test*

Article 1

2-1-1960

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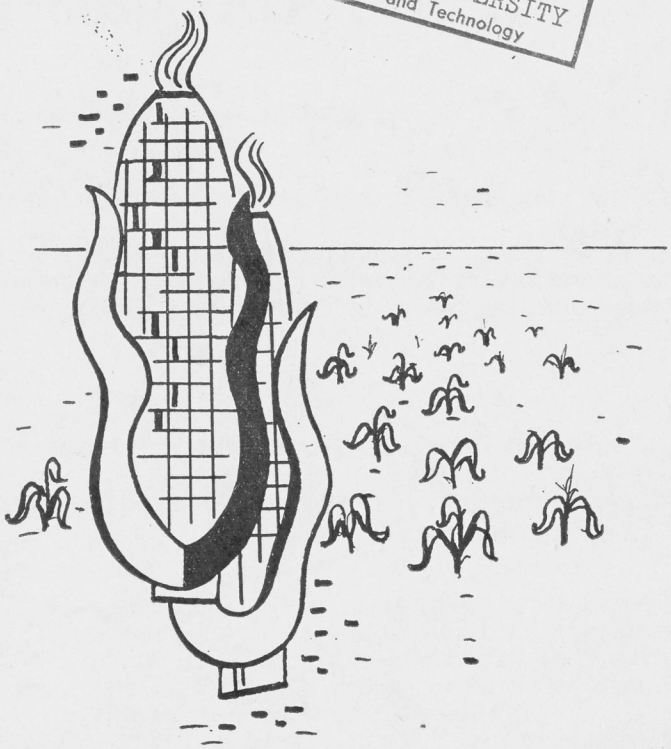
IOWA CORN YIELD TEST 1959



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Agricultural and Home Economics Experiment Station,
Cooperative Extension Service,
Iowa Crop Improvement Association
and the
Crops Research Division,
Agricultural Research Service,
United States Department of Agriculture,
cooperating

IOWA STATE UNIVERSITY of Science and Technology . . . . . BULLETIN P-128 . . . . . AMES, IOWA February 1960

THE 1959 IOWA CORN YIELD TEST[1]

by C. D. Hutchcroft, J. L. Robinson and R. D. Ingledue[2]

This bulletin is the report of the fortieth annual Iowa Corn Yield Test. Similar tests have been conducted each year since 1920.

The purpose of the Iowa Corn Yield Test is to compare the performances of corn hybrids being grown in Iowa and to make this information available to Iowa farm operators. The presentation of this report does not imply approval or endorsement of the hybrids tested by any of the cooperating agencies.

Location of Test Fields

The map (fig.1) shows the division of the state into 12 districts and the location of the 24 test fields—two test fields in each district.

The name and address of each cooperator and the dates of planting and harvesting are shown in table A.

Number of Entries per District

The number of entries in each district is shown below:

District	Entries
3A, 3B, 10	72
1, 2, 6, 7, 12	81
4, 5, 11	90
8, 9	100
Total all districts	1,091

[1]Project 1170 of the Iowa Agricultural and Home Economics Experiment Station. The Iowa Corn Yield Test is conducted cooperatively by the Iowa Crop Improvement Association; Agronomy Department, Iowa Agricultural and Home Economics Experiment Station; and the Crops Research Division, Agricultural Research Service, United States Department of Agriculture.

[2]Respectively, secretary of the Iowa Crop Improvement Association and assistant professor of farm crops; professor of farm crops; and technician, Agronomy Department, Iowa State University of Science and Technology.

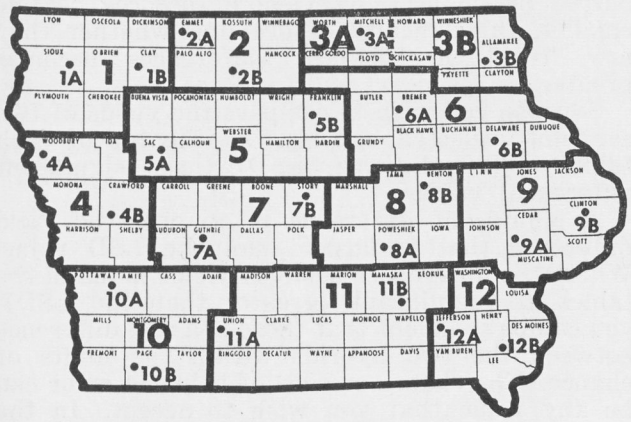


Fig. 1. Division of the state into districts, and the location of the two test fields planted within each district in 1959.

The 1,091 entries were made by 48 individuals or companies. A total of 369 corn hybrids were tested. Each hybrid was entered by districts, except in district 3 where separate entries were possible in subdistricts 3A and 3B.

Approximately 5 percent of the entries were single-cross hybrids, and 2 percent were three-way crosses. All other entries were double-cross hybrids. Single-cross and three-way hybrids are labeled as such in the tables. All unlabeled entries are double-cross hybrids.

Plan of Procedure

All hybrid corn seed producers were eligible to

TABLE A. NAMES OF COOPERATORS AND LOCATION OF TEST FIELDS—1959 INCLUDING HARVESTING AND PLANTING DATES.

Dist.	Cooperator	Address	Date planted	Date harvested
1A	Alvin Linch	Sheldon	May 15	Oct. 21
1B	John F. Schoelerman & Son	Everly	May 14	Oct. 14
2A	John Greig	Estherville	May 25	Oct. 15
2B	Hugh Black	Algona	May 14	Oct. 16
3A	Thoresen Bros.	Osage	May 19	Oct. 20
3B	Harlan Foels	Postville	May 12	Oct. 27
4A	Lawrence Christensen	Sergeant Bluff	May 19	Nov. 9
4B	Louis Ahart	Dow City	May 18	Nov. 10
5A	Vernol P. Block	Sac City	May 15	Nov. 3
5B	Lawrence Hamilton	Hampton	May 13	Oct. 31
6A	Ivan G. Epley	Waverly	May 12	Oct. 27
6B	Ross Childs	Manchester	May 26	Oct. 29
7A	Dean Shiflet	Bagley	May 15	Oct. 9
7B	Frandsen Bros.	Roland	May 2	Oct. 5
8A	Carl Tokle	Grinnell	May 14	Oct. 7
8B	Harold Wingert	LaPorte City	May 26	Oct. 30
9A	Herbert C. Hinkhouse	West Branch	May 15	Oct. 14
9B	Robert L. Bock	Delmar	May 11	Oct. 12
10A	Lauren Leaders	Minden	May 20	Oct. 20
10B	Joseph O'Hara	Shenandoah	May 28	Nov. 4
11A	Gene Dunphy & Ed Hanrahan	Creston	May 16	Nov. 3
11B	Maurice Beaver	Cedar	May 16	Nov. 2
12A	Homer Wiggins	Packwood	May 16	Oct. 23
12B	Sam Redfern	New London	May 13	Oct. 20

enter hybrids in the 1959 test. Each producer was limited to a maximum of seven entries in each district.

Seed for testing was obtained by representatives of the Iowa Crop Improvement Association by sampling at random from supplies of seed to be sold. Each sample was taken from several bags and often from supplies at more than one location.

Each hybrid was assigned a code number by which it was designated in the record books throughout the testing period. Thus, no person concerned with the test knew the identity of any entry.

The hybrids were planted in 40-inch rows at all locations. Plots were 6⅔ feet wide and 16⅔ feet long (2 x 5 hills). The seed was hand planted at the rate of two kernels every 20 inches in the row. At most locations an extra kernel was planted in the end hills making the planting rate 40 kernels per plot or approximately 16,000 kernels per acre.

Three replications of each entry were planted at each location. No adjustments in yield were made because of variations in stand, and plots with extremely poor stands were discarded. The stand percentage was determined by dividing the number of plants present at harvest by the number of kernels planted and multiplying by 100.

Plants root-lodged, stalk-lodged or having dropped ears were recorded before harvest. Plants broken below the ear were called stalk-lodged. Plants leaning more than 30 degrees were called root-lodged.

Samples for moisture tests were obtained either by shelling the whole ear or by removing two rows of kernels from a composite sample of ears from each of three replications. The shelled corn was thoroughly mixed, and about 1 pound was retained in a moisture-proof container. Moisture percentage was determined on a Tag-Heppenstal moisture meter.

Yield was determined by harvesting and weighing the corn taken from each plot. The average yield of all plots at a location was converted to bushels of shelled corn per acre with 15.5 percent moisture. Shelling percentages were used in computing yield at 15 locations in 1959.

How Information Is Presented

An index in the back of the bulletin lists the name and number of each hybrid and the district where tested. The performances of 233 hybrids tested for 2-, 3- or 4-year periods are listed in tables 1 through 12. Hybrids are ranked according to yield.

Results for 1959

All 24 fields were harvested in 1959. Nineteen fields averaged more than 100 bushels per acre. The average yield of all fields harvested was 109 bushels per acre. This average yield is the same as in 1958. The range in yields of the fields was from 66 to 137 bushels per acre. The highest average yield was produced near Waverly in district 6A.

TABLE B. YEARLY SUMMARY, 1940 THROUGH 1959, AVERAGE OF ALL FIELDS HARVESTED.

Year	Average yield bu./acre	Average stand pct.	Average moisture pct.	Average lodging pct.	Average dropped ears pct.
1940	72.0	85.2	19.4	6.9	0.6
1941	68.3	87.2	20.7	34.9	1.0
1942	82.1	82.4	21.9	8.2	0.2
1943	83.1	78.9	24.7	9.1	0.2
1944	76.6	84.9	21.6	4.7	0.3
1945	71.8	86.8	24.9	28.3	0.8
1946	88.1	80.4	22.9	24.0	0.6
1947	55.1	80.6	18.3	27.9	1.0
1948	88.8	82.0	19.8	14.1	1.1
1949	77.3	84.5	17.2	34.5	8.6
1950	74.8	85.5	20.0	13.0	0.6
1951	70.6	87.4	27.7	21.1	0.4
1952	97.3	84.2	22.0	4.7	0.6
1953	95.9	80.8	15.8	13.1	3.3
1954	97.4	85.7	22.1	14.3	2.7
1955	85.7	87.6	18.1	23.6	2.7
1956	95.2	88.0	19.7	13.7	2.6
1957	102.9	86.5	24.3	10.2	1.3
1958	109.1	89.3	20.5	14.2	1.6
1959	109.1	91.1	23.8	22.3	0.7
Average	85.1	85.0	21.3	17.1	1.5

Plant stands averaged 91 percent—the highest ever recorded in the Iowa Corn Yield Test. Only one field averaged below 80 percent.

The moisture content of the shelled corn at harvest averaged 23.8 percent for all fields harvested. This is 3 percent higher than the average moisture content in 1958.

Among all fields, average root lodging ranged from none to 42 percent. Stalk lodging ranged from 1 to 42 percent.

Dropped ears averaged less than 1 percent for all fields. A yearly summary giving averages of all fields for yields, stands, moisture, lodging and dropped ears for 1940 through 1959 is given in table B.

Meaning of Yield Differences

It isn't possible to determine yield differences with absolute precision. We know that there will be differences in yield between two entries of the same hybrid. Variations in soil, stand, etc., cause such differences. Statistical analysis, however, makes it possible to determine whether a yield difference is "real" or whether it might have occurred by chance. As yield differences become smaller, the difficulty of deciding whether they are "real" or "chance" differences becomes greater.

Suppose you wish to compare the yields of two randomly selected hybrids. At the top of each table you'll find three "LSD" (least significant difference) values.

A significant difference is an observed yield difference that is larger than the LSD value. Where the differences between yields listed in the tables are significant (greater than the LSD), you can be confident that there is a real difference between the two hybrids within the limits of chance. The chance or odds of being in error can be any value that you wish to accept. In the tables of data, we have calculated three different sets of values based on three different odds.

These odds are 1 to 1, 1 to 4 and 1 to 19. If the observed difference in yield as shown in the table is less than the LSD value, the difference might still be real, but, because of chance factors, the experiment may have produced no evidence of a real difference.

You can apply the information in the tables to other areas in the district, such as your own farm, if conditions are similar. Rainfall and temperatures vary from year to year. Soil type, fertility level, past management, stand level, etc., vary from farm to farm and among fields within a farm. These are some of the changing factors that make continued testing necessary.

Soil Types

Information about the soil type on which the test fields were located is shown below each table of performance data. The soil types indicated were identified in consultation with F. F. Riecken, professor of soils.

Designations identifying hybrids in the tables are listed below opposite the name and address of entrant.

Designation	Name and address of entrant
	Open Pedigree
AES	Agronomy Dept. & USDA, Ames
AES	Iowa Crop Improvement Assn., Ames
AES	J. H. Isenhart, Batavia
Iowa	Agronomy Dept. & USDA, Ames
Iowa	Iowa Crop Improvement Assn., Ames
Iowa	North Iowa Agr. Exp. Assn., Kanawha
Iowa	Sar Seed Farms, Charles City
Ohio	Iowa Crop Improvement Assn., Ames
Ohio	Iowa State Hybrid Corn Co., Elkhart
U. S.	Iowa Crop Improvement Assn., Ames
	Closed Pedigree
Cargill	Cargill Incorporated, Minneapolis, Minn.
Cornelius	Cornelius Hybrid Corn Co., Bellevue
Corn King	Malcolm H. Grieve, Pierson
DeKalb	DeKalb Agr. Assn., Inc., DeKalb, Ill.
Disco	Dakota Improved Seed Co., Emmetsburg
Dittmer	Junior Dittmer, Carthage, Ill.
Dockendorff	Max Dockendorff, Danville
Farmers	Farmers Hybrid Seed Corn Co., Hampton
Forster	Parks Forster, Donnellson
Funk	Funk Bros. Seed Co., Belle Plaine
Genetic Giant	Steckley Hybrid Corn Co., Lincoln, Neb.
Harper	Harper Hardy Hybrids, Vinton
Holden	Holden Hybrid Seed Farms, Tipton
Holden	Holden Foundation Hybrids, Williamsburg
Hulting	G. E. Hulting & Son, Geneseo, Ill.
Iowa-Missouri	Iowa-Missouri Hybrid Corn Co., Keosauqua
Isenhart	J. H. Isenhart, Batavia
King	King Hybrids, Pisgah
Krizer	Krizer Hybrid Seed Corn Co., Oskaloosa
McAllister	McAllister Seed Farms, Mt. Pleasant
McCurdy	W. O. McCurdy & Sons, Fremont
Maygold	Earl May Seed Co., Shenandoah
Middlekoop	John Middlekoop, Packwood
Moews	Moews Seed Co., Granville, Ill.
Naeve	Naeve Hybrid Corn Co., Bryant
N.I.A.E.A.	North Iowa Agr. Exp. Assn., Kanawha
Northrup King	Northrup King & Co., Minneapolis, Minn.
P.A.G.	Pfister Assoc. Growers, Inc., Aurora, Ill.
Pfister	Pfister Hybrid Corn Co., El Paso, Ill.
Pioneer	Pioneer Hi-Bred Corn Co., Des Moines
Powers	W. K. Powers, Duncombe
Sar	Sar Seed Farms, Charles City
Sieben	Sieben Hybrids, Geneseo, Ill.
Supercrost	Edw. J. Funk & Sons, Kentland, Ind.
Tekseed	Tekseed Hybrid Co., Tekamah, Neb.
Tomco	Tomahawk Corn Co., Belmond
Turner	Turner Hybrid Seed Corn Co., Grand Junction
United-Hagie	United-Hagie Hybrids, Des Moines

Pedigree of open-pedigree hybrids.

Hybrids	Pedigree
AES 704	(WF9 x Oh43) x (B14 x B37)
AES 801	(WF9 x B7) x (B10 x B14)
AES 806	(WF9 x Hy) x (N6 x N15)
Iowa 4249	(WF9 x Os420) x (187-2 x M14)
Iowa 4297	(WF9 x I205) x (M14 x 187-2)
Iowa 4298	(WF9 x M14) x (Os420 x 187-2)
Iowa 4316	(WF9 x M14) x (I205 x L289)
Iowa 4376	(WF9 x B6) x (M14 x 187-2)
Iowa 4397	(WF9 x I205) x W22 x M14)
Iowa 4417	(WF9 x M14) x (B8 x I153)
Iowa 4470	(WF9 x M14) x (L289 x B6)
Iowa 4483	(WF9 x M14) x (B8 x B16)
Iowa 4517	(WF9 x Hy) x (B7 x B14)
Iowa 4565	(WF9 x Oh41) x (B10 x B14)
Iowa 4570	(WF9 x B14) x (M14 x 187-2)
Iowa 4600	(WF9 x M14) x (B14 x Os420)
Iowa 4622	(WF9 x 38-11) x (B14 x Oh41)
Iowa 4630	(WF9 x Oh51A) x (B21 x M14)
Iowa 4632	(WF9 x Oh51A) x (M14 x Oh28)
Iowa 4646	(WF9 x Oh51A) x (Oh28 x W22)
Iowa 4732	(WF9 x B7) x (B14 x N6)
Iowa 4767	(WF9 x M14) x (Oh51A x W22)
Iowa 4807	(WF9 x M14) x (B6 x B37)
Iowa 4809	(WF9 x M14) x (B14 x B37)
Iowa 4903	(WF9 x B7) x (B14 x B38)
Iowa 4912	(WF9 x B14) x (Hy x Oh41)
Iowa 4947	(WF9 x M14) x (Oh51A x A257)
Iowa 4954	(WF9 x M14) x (B14 x Oh51A)
Iowa 4976	(WF9 x Oh43) x (B37 x 187-2)
Iowa 4989	(WF9 x B14) x (B37 x B42)
Iowa 4991	(WF9 x B14) x (Oh43 x B42)
Iowa 5025	(WF9 x B14) x (B38 x Oh41)
Iowa 5036	(WF9 x B14) x (Oh41 x C.I.31A)
Iowa 5043	(WF9 x 38-11) x (B14 x C.I.31A)
Iowa 5052	(WF9 x M14) x (Oh51A x W182D)
Iowa 5057	(WF9 x Oh51A) x (Oh43 x W182D)
Iowa 5063	(WF9 x M14) x (B14 x A257)
Iowa 5115	(WF9 x B14) x (C.I.31A x B45)
Iowa 5116	(WF9 x B14) x (Oh41 x B45)
Ohio C92	(WF9 x 38-11) x (Hy x Oh07)
U. S. 13	(WF9 x 38-11) x (Hy x L317)

TABLE 1. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 1.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	50	4	3 bu.	5 bu.	7 bu.
3-year average	32	6	2 bu.	4 bu.	6 bu.
4-year average	22	7	2 bu.	4 bu.	5 bu.

For additional information see text.

Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**101.3**	**91**	**22.4**	**2.2**	**6.5**	**2.8**
Pioneer 345	107	94	23	6	8	6
P.A.G. 303	106	93	25	2	7	3
Corn King 113 (3x)	105	93	24	1	4	1
N.I.A.E.A. 333	104	94	22	1	5	2
Funk G-75A	104	91	24	3	4	1
Pioneer 371	103	94	19	2	6	5
DeKalb 409	102	94	20	2	14	3
Pioneer 352	102	88	21	2	6	2
P.A.G. 277	102	92	22	2	10	5
AES 704 (ICIA)	102	87	25	0	2	2
Pioneer 349	101	95	21	2	9	5
Iowa 4316 (ICIA)	100	92	23	7	8	4
Iowa 4630 (Sar)	100	89	21	3	7	4
P.A.G. 234	100	93	22	1	8	3
Iowa 4809 (Agron. & USDA)	100	89	24	2	3	1
McCurdy 111-1	99	90	24	3	5	1
Maygold 67	99	89	23	3	9	3
Maygold 99A	99	88	22	2	10	3
P.A.G. 62	99	94	20	1	6	1
DeKalb 414	98	92	23	1	5	3
Northrup King KO4	98	89	21	0	5	2
Maygold 97	97	86	24	1	4	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**103.7**	**90**	**24.0**	**3.0**	**7.0**	**2.4**
Pioneer 345	110	93	24	9	9	4
P.A.G. 303	109	92	25	3	8	2
Holden 228-H	109	89	28	9	4	1
Corn King 113 (3x)	108	92	25	2	5	1
United-Hagie WW30	107	91	24	1	7	1
N.I.A.E.A. 333	106	93	23	1	5	9
DeKalb 414	106	92	24	1	7	3
Funk G-75A	105	91	25	5	5	2
Northrup King KT5	105	89	25	6	6	2
Northrup King KT6	105	89	**26**	**5**	**3**	**1**
Pioneer 352	105	86	22	2	6	2
P.A.G. 234	105	93	23	2	10	3
DeKalb 409	105	92	21	3	13	2
Iowa 4470 (N.I.A.E.A.)	105	87	23	5	7	2
Iowa 4316 (ICIA)	104	91	24	6	8	4
Pioneer 371	104	92	20	2	7	4
Pioneer 349	104	93	23	3	9	3
Moews 14A	103	90	25	1	8	2
AES 704 (ICIA)	102	84	26	0	2	2
Iowa 4630 (Sar)	102	89	22	4	8	2
United-Hagie 41A	102	90	27	1	7	3
P.A.G. 277	102	90	24	3	11	2
Iowa 4297 (ICIA)	102	88	24	6	6	2
Maygold 99A	102	86	24	3	9	2
Northrup King KO4	101	88	22	1	6	2
Maygold 67	101	90	25	4	11	2
Northrup King KT2	101	89	25	1	11	1
P.A.G. 62	101	92	20	1	7	1
McCurdy 111-1	101	89	25	4	7	9
Iowa 4809 (Agron. & USDA)	101	87	26	2	4	1
McCurdy 114E	99	91	25	0	6	1
Maygold 97	99	83	25	2	5	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**106.7**	**93**	**22.9**	**4.0**	**7.2**	**2.0**
Pfister 1871 (sx)	118	94	22	26	6	3
Iowa 5063 (Agron. & USDA)	117	96	22	0	5	1
DeKalb 400 (sx)	117	94	22	2	7	3
Corn King 123	114	95	26	2	5	1
P.A.G. 303	112	96	25	5	9	2
United-Hagie WW30	112	94	23	2	8	1
Corn King 113 (3x)	111	96	24	2	6	1
Pioneer 345	111	97	23	13	10	4
Holden 228-H	110	91	27	1	3	1
Maygold 99A	109	93	23	4	9	2
Genetic Giant 6	109	94	23	5	13	2
AES 704 (ICIA)	109	90	25	0	3	2
N.I.A.E.A. 333	108	96	21	2	5	1
Northrup King KT5	108	91	24	9	6	2
Sar S489	108	97	24	4	6	1
United-Hagie 39	108	94	21	11	8	2
DeKalb 444	108	98	26	0	4	2
Pioneer 352	108	90	21	3	7	3
DeKalb 409	108	96	20	4	16	3
Pioneer 371	108	93	19	3	8	4
P.A.G. 234	108	95	21	3	11	3
Northrup King KT6	107	90	25	8	4	1
Iowa 4316 (ICIA)	107	93	23	9	9	4
P.A.G. 277	107	95	23	4	11	2
Funk G-75A	106	93	24	7	6	2
Iowa 4470 (N.I.A.E.A.)	106	89	23	7	8	3
Iowa 4630 (Sar)	106	92	21	6	9	3
Northrup King KT2	106	92	24	1	14	1
Tekseed TS33	106	96	24	2	4	1
Tomco 449	106	91	22	3	7	2
DeKalb 414	105	95	23	2	8	4
Moews 14A	105	95	23	2	8	3
United-Hagie WW40	105	91	24	3	5	2
McCurdy 111-1	105	93	24	6	7	1
Iowa 4297 (ICIA)	104	92	23	10	6	2
McCurdy 110	104	95	23	1	5	1
Genetic Giant 4	104	94	22	2	4	2
United-Hagie 41A	104	94	25	2	9	3
Maygold 98	104	91	24	2	5	2
Pioneer 349	104	97	22	5	9	3
Iowa 4809 (Agron. & USDA)	104	91	25	3	4	2
Moews 48	103	92	24	0	4	2
Maygold 67	103	94	24	6	11	3
P.A.G. 62	103	95	20	1	7	1
Northrup King KO4	103	92	21	1	8	2
Genetic Giant 1	101	91	21	3	7	2
McCurdy 114E	101	94	23	0	7	1
Northrup King KT1	101	92	22	2	7	2
Moews 58	99	92	23	1	8	1
Maygold 97	99	87	24	2	6	2

*Soil types on which test fields were located:

	Field 1A	Field 1B
1956	Not harvested	Marcus silty clay loam
1957	Marcus silty clay loam	Primghar silt loam
1958	Marcus silty clay loam	Sac silt loam
1959	Marcus silty clay loam	Sac silt loam

†sx = single cross; 3x = 3-way cross.

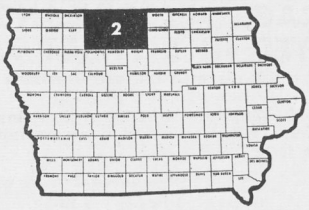
TABLE 2. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 2.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	52	4	3 bu.	5 bu.	8 bu.
3-year average	33	6	2 bu.	4 bu.	7 bu.
4-year average	26	8	2 bu.	4 bu.	6 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**83.6**	**89**	**22.4**	**1.6**	**10.5**	**1.9**
Funk G-75A	88	92	24	2	6	2
Pioneer 354	88	91	22	2	5	3
N.I.A.E.A. 333	87	90	22	0	12	2
Iowa 4646 (ICIA)	86	88	22	0	6	2
DeKalb 627	86	93	24	5	14	2
Maygold 97	86	87	24	1	8	1
Pioneer 349	85	93	22	3	10	1
Iowa 4767 (Agron. & USDA)	85	89	22	1	8	2
P.A.G. 244	85	89	22	0	13	1
Pioneer 347	85	93	22	3	11	2
Pioneer 352	85	90	22	2	10	1
Iowa 4630 (ICIA)	84	90	21	1	14	2
P.A.G. 277	84	90	23	4	17	2
Pioneer 371	84	88	20	1	9	3
DeKalb 414	84	89	23	1	5	3
Maygold 67	83	86	25	2	13	2
McCurdy 96	83	88	22	0	12	2
Iowa 4397 (ICIA)	83	87	23	3	8	1
Farmers 285	82	88	21	0	10	2
Maygold 99A	82	87	23	2	16	2
Northrup King KO4	82	89	22	1	11	1
Iowa 4570 (ICIA)	82	87	23	1	5	0
DeKalb 406	81	89	22	2	8	4
Iowa 4298 (ICIA)	80	88	24	3	14	1
Northrup King KT	80	87	22	2	9	4
Iowa 4417 (ICIA)	72	87	18	2	21	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**86.1**	**89**	**25.0**	**2.2**	**6.5**	**0.9**
Moews CB65A	92	90	30	3	2	1
Iowa 4809 (Agron. & USDA)	92	91	27	4	4	0
Funk G-75A	91	93	26	3	4	0
Pioneer 354	90	91	25	2	4	2
Pioneer 347	90	95	25	4	9	1
Iowa 4646 (ICIA)	89	89	25	0	4	1
N.I.A.E.A. 333	89	89	24	0	4	1
Maygold 97	89	86	27	2	7	1
DeKalb 627	89	93	27	6	7	1
Pioneer 349	88	94	24	3	7	1
Iowa 4630 (ICIA)	88	91	23	1	8	1
Maygold 67	88	88	27	3	6	1
Iowa 4767 (Agron. & USDA)	87	89	24	1	7	1
P.A.G. 277	87	89	25	5	11	1
DeKalb 414	87	90	26	2	4	1
P.A.G. 244	87	89	24	0	7	0
Pioneer 371	86	88	23	2	6	1
Pioneer 352	86	90	24	2	6	1
Farmers 285	86	89	23	0	5	1
United-Hagie WW30	85	86	25	2	5	1
McCurdy 96	85	88	25	0	5	1
Iowa 4397 (ICIA)	85	89	26	4	6	1
Maygold 99A	84	88	26	3	7	2
Northrup King KT5	84	86	27	3	7	0
Disco 107AA	84	87	24	1	7	1
Iowa 4570 (ICIA)	84	88	26	1	5	0
Northrup King KT2	84	87	27	1	8	0
Northrup King KO4	83	90	24	1	9	1
Northrup King KT	83	89	25	3	7	3
Iowa 4298 (ICIA)	83	87	26	4	11	1
Iowa 4470 (N.I.A.E.A.)	82	89	25	4	8	1
DeKalb 406	82	89	24	3	4	3
Iowa 4417 (ICIA)	75	88	20	2	13	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**84.2**	**92**	**25.1**	**2.9**	**7.0**	**0.8**
DeKalb 400 (sx)	98	91	24	0	5	1
Cargill E402 (sx)	93	92	24	4	5	0
Funk G-75A	90	96	26	5	4	1
N.I.A.E.A. 333	90	93	24	0	3	0
Iowa 5063 (Agron. & USDA)	89	89	26	1	6	1
Moews CB65A	89	94	30	4	3	1
Pioneer 354	89	92	25	3	4	1
DeKalb 444	88	92	28	0	4	1
Maygold 67	88	92	27	4	8	1
Iowa 4809 (Agron. & USDA)	87	94	27	5	4	0
Genetic Giant 3A	87	92	24	2	7	1
McCurdy 110	87	92	25	3	4	1
Cornelius 404B	86	96	25	1	3	1
Maygold 99A	86	91	26	4	8	1
Genetic Giant 6	86	92	26	8	8	1
Moews 56	86	92	26	1	7	1
Iowa 4947 (Agron. & USDA)	86	92	24	2	6	1
Iowa 4630 (ICIA)	85	93	23	2	10	1
Northrup King KT2	85	92	27	1	10	1
Northrup King KO4	85	96	24	2	12	0
United-Hagie WW30	85	87	25	3	6	0
P.A.G. 277	85	92	25	7	15	1
Pioneer 349	85	94	24	5	7	1
United-Hagie 39	85	92	24	6	11	1
Disco 111AA	84	92	25	1	7	2
Farmers 285	84	94	23	0	4	1
DeKalb 627	84	95	27	9	9	2
Pioneer 371	84	89	23	2	6	1
Maygold 98	84	93	27	0	2	0
P.A.G. 244	84	90	24	1	7	0
Northrup King KT	84	91	24	4	9	2
P.A.G. 347	84	96	25	6	11	1
Sar S489	83	93	26	1	5	0
DeKalb 414	83	95	25	3	4	1
Pioneer 352	83	90	25	3	8	1
Maygold 97	83	88	27	2	8	1
Cargill 255	82	90	26	3	6	1
Genetic Giant 1	82	90	24	3	5	0
Iowa 4646 (ICIA)	82	90	25	0	5	0
Cargill 175	82	89	24	1	4	1
Iowa 4767 (Agron. & USDA)	81	90	24	2	8	1
Disco 107AA	81	90	24	2	7	1
Northrup King KT5	81	89	27	4	10	0
Iowa 4470 (N.I.A.E.A.)	80	91	25	5	9	2
Iowa 4397 (ICIA)	80	92	26	6	7	1
Iowa 4298 (ICIA)	80	91	26	5	13	1
McCurdy 96	80	89	25	1	7	1
Iowa 4570 (ICIA)	79	90	25	1	7	0
DeKalb 406	79	93	25	5	5	3
Northrup King KT1	78	93	25	3	10	1
Cargill 250	77	88	26	6	8	1
Iowa 4417 (ICIA)	77	91	20	3	16	1

*Soil types on which test fields were located:

	Field 2A	Field 2B
1956	Webster silty clay loam	Webster silty clay loam
1957	Webster silty clay loam	Webster silty clay loam
1958	Nicollet silt loam	Clarion loam
1959	Webster silty clay loam	Clarion loam

†sx = single cross; 3x = 3-way cross.

TABLE 3A. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 3A.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	38	2	3 bu.	6 bu.	9 bu.
3-year average	24	3	2 bu.	4 bu.	7 bu.
4-year average	20	4	2 bu.	4 bu.	6 bu.

For additional information see text.

Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**115.9**	**93**	**24.4**	**1.5**	**4.9**	**0.3**
P.A.G. 277	123	94	25	2	6	1
Pioneer 347	123	95	25	1	6	0
Pioneer 349	122	92	24	3	5	0
Maygold 99A	119	92	26	4	7	1
Pioneer 352	119	92	24	2	3	1
Maygold 67	119	90	27	2	6	0
Maygold 97	119	94	26	0	4	0
Moews 15	118	95	25	4	4	0
United-Hagie 39	116	94	24	4	5	0
Iowa 4630 (ICIA)	116	95	24	0	4	0
Northrup King KT	116	92	25	0	9	1
Pioneer 371	115	88	24	1	4	1
P.A.G. 62	114	95	23	1	6	0
N.I.A.E.A. 333	114	94	25	0	4	0
McCurdy 96	114	92	25	0	3	0
P.A.G. 234	114	92	24	1	5	0
Northrup King KO4	113	95	26	0	3	0
Maygold 107	109	98	22	1	5	1
Farmers 222	108	92	22	2	5	0
Iowa 4483 (ICIA)	107	93	22	2	4	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**110.5**	**93**	**25.9**	**1.3**	**4.1**	**0.2**
P.A.G. 277	117	93	25	2	5	1
Pioneer 347	116	93	27	0	6	0
Pioneer 349	116	93	26	1	5	0
Maygold 99A	116	93	27	1	7	1
Pioneer 352	115	92	26	1	2	0
Maygold 97	114	94	28	0	3	0
DeKalb 414	113	93	27	1	1	0
DeKalb 423	112	93	28	1	3	0
Northrup King KT	112	93	27	0	9	0
United-Hagie 39	111	93	26	5	4	0
Maygold 67	111	88	29	3	4	0
Pioneer 371	111	88	25	1	3	1
Moews 15	111	95	26	2	4	0
P.A.G. 234	110	92	25	1	4	0
United-Hagie WW30	110	92	27	2	1	0
P.A.G. 62	109	94	23	0	6	0
N.I.A.E.A. 333	109	94	26	0	3	0
Iowa 4630 (ICIA)	109	95	25	0	4	0
McCurdy 96	108	91	26	0	3	0
Iowa 4470 (N.I.A.E.A.)	108	94	28	5	4	1
Northrup King KO4	106	95	27	1	3	0
Maygold 107	105	93	23	1	6	0
Iowa 4483 (ICIA)	103	95	23	0	3	1
Farmers 222	102	93	23	2	6	0
2-YEAR AVERAGE 1958-1959						
Average all entries	**108.7**	**95**	**25.5**	**1.5**	**3.2**	**0.2**
DeKalb 400 (sx)	131	97	26	0	2	0
Pioneer 349	117	94	25	1	4	0
Tomco 449	116	96	27	2	4	0
Hulting 235	114	95	26	2	6	0
Pioneer 347	114	96	26	1	4	0
Pioneer 371	113	90	24	1	2	1
Pioneer 352	113	94	25	2	3	0
Northrup King KT	113	92	25	1	6	1
Iowa 5052 (Agron. & USDA)	113	96	25	0	3	1
Iowa 4947 (Agron. & USDA)	112	96	25	0	3	1
Maygold 99A	112	95	26	1	6	1
Maygold 98	111	96	26	1	1	0
Maygold 97	111	95	27	0	3	0
Maygold 67	111	90	29	4	2	0
P.A.G. 62	111	98	23	0	6	0
Hulting 238	111	98	25	1	5	1
DeKalb 423	110	97	28	2	3	0
Pioneer 380	110	96	23	3	4	1
DeKalb 414	110	94	27	1	1	1
P.A.G. 234	109	97	25	2	4	0
N.I.A.E.A. 333	109	94	25	1	3	1
P.A.G. 277	108	94	27	3	4	0
United-Hagie WW30	108	95	28	3	1	0
Genetic Giant 4	107	92	25	1	1	0
Genetic Giant 6	106	92	27	1	3	1
McCurdy 96	106	95	25	0	2	0
Cornelius 252C	106	96	26	2	2	0
Moews 15	106	96	25	2	2	0
United-Hagie 39	106	94	25	7	4	0
Iowa 4470 (N.I.A.E.A.)	105	94	27	7	3	1
Supercrost 438	104	92	28	1	1	0
Iowa 4630 (ICIA)	104	94	25	1	2	0
Northrup King KO4	102	96	27	1	4	0
Maygold 107	102	92	22	2	5	0
Genetic Giant 1	102	95	25	1	3	0
Farmers 222	100	96	23	3	4	1
Iowa 4483 (ICIA)	100	94	22	1	2	1
Northrup King KS5	91	94	25	0	5	0

*Soil types on which test field was located:

Field 3A

1956.....Floyd loam
1957.....Floyd loam
1958.....Floyd loam
1959.....Floyd loam

†sx = single cross; 3x = 3-way cross.

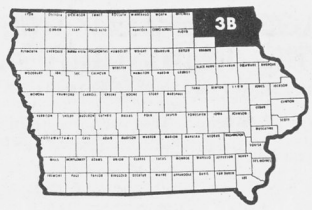
TABLE 3B. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 3B.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	39	2	4 bu.	7 bu.	11 bu.
3-year average	21	3	3 bu.	6 bu.	9 bu.
4-year average	17	4	3 bu.	5 bu.	8 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**100.9**	**90**	**23.6**	**2.1**	**5.6**	**0.7**
Pioneer 349	109	94	23	7	6	1
Maygold 99A	107	91	25	2	5	1
P.A.G. 277	105	90	25	2	9	1
N.I.A.E.A. 333	104	90	24	1	3	0
P.A.G. 62	104	94	21	1	5	0
Iowa 4483 (ICIA)	103	90	22	2	7	1
Iowa 4630 (ICIA)	102	91	25	0	7	1
Pioneer 352	101	86	24	3	5	0
McCurdy 96	101	90	24	0	3	0
Northrup King KO4	101	93	25	2	5	0
Northrup King KT	101	91	24	2	4	1
Maygold 107	100	88	22	1	5	3
Pioneer 371	100	89	24	4	4	1
Maygold 97	96	91	26	1	4	1
Farmers 222	96	90	23	4	7	1
Pioneer 347	95	88	24	3	9	0
Iowa 4417 (ICIA)	91	90	21	2	7	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**99.1**	**91**	**24.4**	**2.9**	**6.2**	**0.8**
DeKalb 414	110	93	26	5	7	1
Pioneer 349	107	94	23	9	6	1
Maygold 99A	105	93	25	3	5	1
P.A.G. 62	103	94	21	1	6	0
Iowa 4632 (ICIA)	103	92	26	2	4	0
P.A.G. 277	101	90	25	2	10	1
Iowa 4483 (ICIA)	101	90	23	3	9	1
United-Hagie WW30	100	92	26	3	5	1
McCurdy 96	100	91	24	0	4	0
Pioneer 352	100	88	24	4	5	0
Northrup King KT	100	92	25	3	5	1
Iowa 4630 (ICIA)	99	90	25	0	8	2
N.I.A.E.A. 333	99	88	25	2	4	0
Maygold 107	98	89	22	1	6	3
Maygold 97	97	92	26	1	5	1
Northrup King KO4	96	92	26	2	6	0
DeKalb 423	95	92	26	4	4	1
Pioneer 371	95	89	25	5	5	1
Farmers 222	94	91	23	5	8	1
Pioneer 347	91	91	24	4	10	0
Iowa 4417 (ICIA)	88	91	21	3	9	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**96.4**	**92**	**23.8**	**4.2**	**5.2**	**0.5**
DeKalb 414	110	94	24	8	7	1
Pioneer 349	105	95	24	11	4	1
Iowa 5057 (Agron. & USDA)	105	94	24	4	2	1
Iowa 5052 (Agron. & USDA)	104	91	22	1	4	0
P.A.G. 62	103	96	21	2	6	0
Iowa 4483 (ICIA)	103	92	22	4	7	0
Tomco 449	102	92	25	8	6	1
Hulting 238	102	95	23	6	4	1
DeKalb 400 (sx)	102	86	24	4	4	1
Iowa 4632 (ICIA)	101	94	24	2	5	0
Maygold 99A	101	93	24	3	5	1
Iowa 4947 (Agron. & USDA)	100	87	24	2	1	3
P.A.G. 277	100	91	24	3	11	1
Maygold 107	100	91	21	1	4	1
Cornelius 252C	99	95	23	7	5	1
McCurdy 96	99	92	23	0	5	0
Maygold 98	99	93	26	2	4	0
United-Hagie WW30	99	93	25	5	6	0
N.I.A.E.A. 333	97	88	24	2	4	0
Hulting 235	97	96	23	5	5	0
Pioneer 352	97	86	24	6	5	1
Moews 14DR	96	94	26	9	3	0
Northrup King KT	96	92	24	4	5	1
Iowa 4630 (ICIA)	95	90	24	1	8	1
Northrup King KO4	94	94	25	4	4	0
Maygold 97	94	93	24	2	6	1
DeKalb 251	93	94	23	10	4	1
Pioneer 380	92	94	22	5	7	2
Genetic Giant 3A	92	93	25	3	5	0
Genetic Giant 4	92	93	24	1	5	0
DeKalb 423	90	94	26	5	5	1
Farmers 222	90	93	22	8	9	1
Genetic Giant 1	89	87	24	3	7	0
Moews 48A	89	91	29	2	4	1
Pioneer 371	88	91	25	7	4	1
Iowa 4417 (ICIA)	88	92	20	4	8	0
Genetic Giant 6	87	88	27	5	8	0
Northrup King KS5	86	91	24	2	4	0
Pioneer 347	84	90	23	6	8	0

*Soil types on which test field was located:

	Field 3B
1956	Fayette silt loam
1957	Fayette silt loam
1958	Fayette silt loam
1959	Fayette silt loam

†sx = single cross; 3x = 3-way cross.

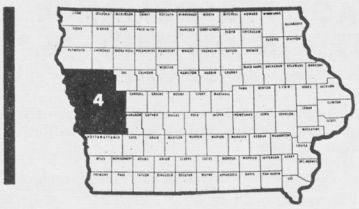
TABLE 4. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 4.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	38	4	3 bu.	6 bu.	8 bu.
3-year average	22	6	2 bu.	4 bu.	7 bu.
4-year average	14	7	2 bu.	4 bu.	6 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**107.8**	**88**	**19.5**	**0.5**	**13.0**	**1.8**
Funk G-60A	113	87	20	0	10	2
Pioneer 329	112	89	18	0	11	4
Maygold 47	111	86	21	0	20	2
P.A.G. 381	111	90	19	2	15	2
Funk G-95A	111	87	21	0	15	2
Pioneer 301C	110	92	21	0	20	1
Maygold 59A	109	88	19	1	16	2
Corn King 123	108	86	20	0	3	1
Funk G-76	108	91	19	0	11	4
Farmers 537	106	86	21	0	15	1
Moews 524	106	88	21	0	11	1
Funk G-75A	104	89	19	0	8	2
Maygold 97	101	85	19	1	11	1
Iowa 4249 (ICIA)	101	86	18	1	18	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**118.1**	**89**	**19.6**	**0.7**	**15.2**	**1.6**
DeKalb 3x3 (3x)	125	90	19	1	17	2
DeKalb 3x1 (3x)	123	89	20	1	17	0
Funk G-95A	122	90	20	1	17	2
Pioneer 329	121	89	18	0	12	4
P.A.G. 381	121	90	19	2	16	1
Funk G-60A	121	89	19	0	10	1
Maygold 47	121	87	21	0	22	1
Maygold 59A	121	88	19	1	18	1
DeKalb 806	121	88	19	1	16	3
United-Hagie WW50	120	90	21	0	22	4
Pioneer 301C	120	93	21	0	22	1
Ohio C92 (ICIA)	119	89	20	1	20	1
Funk G-76	119	93	19	0	11	3
Moews CB60A	119	91	22	0	9	2
DeKalk 3x2 (3x)	117	88	21	2	18	1
Farmers 537	117	86	20	0	16	1
Corn King 123	116	87	17	0	4	1
Funk G-75A	113	92	19	1	8	2
United-Hagie 52B	113	84	20	0	16	2
Moews 524	113	86	21	1	12	1
Maygold 97	109	84	19	1	12	0
Iowa 4249 (ICIA)	108	88	18	1	20	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**118.1**	**89**	**16.5**	**0.7**	**16.2**	**1.2**
DeKalb 3x3 (3x)	129	93	16	0	22	2
P.A.G. 381	125	93	15	2	17	1
DeKalb 3x1 (3x)	124	88	17	1	22	0
Funk G-144	124	89	19	4	11	1
Funk G-60A	123	89	16	0	12	0
Maygold 59A	123	88	16	1	24	1
King K110	123	91	17	1	27	1
Pioneer 329	123	91	15	1	15	3
Funk G-95A	122	89	17	0	20	2
Funk G-76	122	96	16	1	12	3
Maygold 47	122	87	18	0	23	1
Ohio C92 (ICIA)	121	89	16	1	24	2
Moews 519	121	91	18	2	14	1
Moews CB60A	121	91	20	0	10	2
DeKalb 806	121	88	17	1	21	3
Pioneer 301C	120	95	18	0	29	1
United-Hagie WW50	119	90	19	0	25	2
Pioneer 318A	119	89	17	0	19	2
Northrup King KT9	119	93	17	1	17	2
DeKalb 3x2 (3x)	118	91	17	1	23	1
Farmers 537	118	88	17	0	20	1
Tekseed TS63	118	90	16	2	5	2
P.A.G. 323	118	90	16	0	17	2
King Golden Glory	118	86	16	0	8	1
Corn King 123	117	87	17	0	4	0
Moews 524	117	89	17	1	15	1
Pfister 1875 (sx)	116	87	16	0	16	1
United-Hagie 52B	115	85	17	0	21	1
Northrup King KT7	114	90	16	0	9	1
Pfister 1871 (sx)	113	86	16	0	10	1
Funk G-75A	113	92	17	1	9	1
Genetic Giant 6	112	91	15	1	12	1
Tekseed TS73	112	88	16	0	12	0
Maygold 68	112	85	17	1	7	1
Maygold 48	111	82	16	1	15	0
McCurdy 110	110	90	15	1	11	0
Iowa 4249 (ICIA)	110	89	15	0	25	1
Maygold 97	109	84	16	1	15	0

*Soil types on which test fields were located:

	Field 4A	Field 4B
1956	Not harvested	Judson silt loam
1957	Onawa silty clay loam	Judson silt loam
1958	Hayne silt loam	Judson silt loam
1959	Hayne silt loam	Marshall silt loam

†sx = single cross; 3x = 3-way cross.

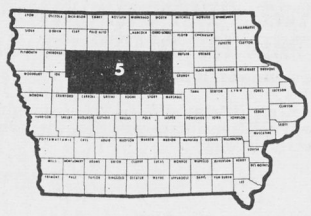
TABLE 5. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 5.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	47	4	2 bu.	5 bu.	7 bu.
3-year average	29	6	2 bu.	4 bu.	6 bu.
4-year average	14	7	2 bu.	4 bu.	5 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**94.4**	**91**	**18.9**	**1.3**	**17.2**	**3.4**
Pioneer 354	101	91	17	0	12	5
P.A.G. 381	100	92	18	5	23	5
AES 704 (Agron. & USDA)	98	90	20	0	9	2
Pioneer 329	97	90	19	0	15	8
Tomco 678	96	90	20	1	21	3
Iowa 4809 (Agron. & USDA)	96	91	19	1	12	2
Funk G-75A	95	93	19	2	14	3
Maygold 99A	93	90	18	1	21	6
Turner T216	93	91	20	0	27	3
McCurdy 100-1	92	92	20	0	22	3
Pioneer 352	91	91	17	1	15	2
Maygold 97	91	93	19	2	16	2
Northrup King KT6	90	89	20	4	10	2
Maygold 67	88	87	18	1	26	3
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**97.8**	**91**	**20.3**	**1.7**	**13.8**	**1.2**
DeKalb 3x1 (3x)	108	91	23	9	15	1
P.A.G. 381	106	92	19	7	17	2
Pioneer 354	103	92	18	0	10	2
Cornelius C75	103	91	22	0	8	1
Iowa 4989 (Agron. & USDA)	102	91	21	1	9	1
Pioneer 329	102	92	20	0	13	3
Iowa 4809 (Agron. & USDA)	102	91	19	1	10	1
DeKalb 3x3 (3x)	100	88	21	4	18	2
AES 704 (Agron. & USDA)	100	92	21	0	8	1
Tomco 678	100	90	21	1	17	1
Maygold 99A	100	92	19	2	19	2
Iowa 4570 (ICIA)	99	91	20	1	11	0
United-Hagie WW30	99	92	19	2	12	1
Funk G-75A	99	95	20	3	12	2
Funk G-76	98	95	21	2	14	2
Powers 400	98	90	20	0	10	1
Turner T49	97	88	24	1	10	1
Maygold 97	96	93	20	3	13	0
Funk G-60A	96	90	22	0	13	2
McCurdy 100-1	96	91	21	0	18	1
McCurdy 114	96	92	20	0	11	1
Pioneer 352	95	91	18	1	14	1
Turner T216	95	91	21	0	19	1
Maygold 67	93	86	19	2	19	1
Northrup King KT6	93	91	21	5	10	1
Northrup King KT2	93	87	19	1	22	1
Northrup King KT5	90	89	20	3	18	0
Iowa 4298 (ICIA)	89	90	20	1	18	1
Northrup King KT7	89	87	21	1	16	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**99.0**	**92**	**20.1**	**1.7**	**16.9**	**1.3**
DeKalb 3x1 (3x)	107	92	22	11	19	2
P.A.G. 381	107	93	19	8	21	3
Pioneer 354	106	93	18	1	14	3
Corn King 123	106	93	21	0	9	0
Pioneer 318A	105	93	22	2	22	1
Cornelius C75	105	91	21	0	10	1
Maygold 68	104	86	22	0	8	2
Moews 48A	103	92	21	0	10	1
Iowa 4989 (Agron. & USDA)	103	93	20	1	11	1
Maygold 99A	102	92	19	1	24	2
Iowa 4809 (Agron. & USDA)	102	93	19	1	12	1
Iowa 4991 (Agron. & USDA)	102	94	21	0	13	1
Funk G-75A	102	95	20	4	15	2
United-Hagie WW30	102	94	19	1	15	1
Tomco 678	101	90	21	2	21	2
AES 704 (Agron. & USDA)	101	94	20	0	11	1
DeKalb 3x3 (3x)	101	90	20	6	23	2
Iowa 4570 (ICIA)	101	94	18	1	15	1
Moews 519	100	94	22	3	18	1
Cornelius C60	100	97	21	1	17	1
Genetic Giant 6	100	92	19	1	20	1
Genetic Giant 10	99	95	21	0	12	2
Pfister 1871 (sx)	99	92	20	6	19	1
Pioneer 329	99	92	20	0	18	3
Powers 400	99	91	20	0	12	1
McCurdy 110	98	92	18	0	13	0
Northrup King KT2	98	92	20	1	29	2
United-Hagie 52B	98	89	22	0	18	1
Cargill 270	98	92	20	1	14	2
McCurdy 114	98	93	19	0	14	1
Genetic Giant 4	98	90	18	1	14	1
Pioneer 352	97	91	18	1	20	2
Maygold 67	97	86	20	3	24	1
McCurdy 100-1	97	92	21	1	22	1
United-Hagie WW40	96	95	19	0	8	2
Funk G-76	96	94	20	2	17	2
Northrup King KT6	96	92	20	6	14	1
P.A.G. 323	96	91	21	0	18	2
Iowa 4470 (ICIA)	95	91	20	6	27	1
Maygold 98	95	91	20	0	11	0
Funk G-60A	95	93	22	1	18	2
Iowa 4298 (ICIA)	95	92	20	1	22	1
Maygold 97	94	93	19	2	18	1
Northrup King KT5	93	91	20	2	24	1
Turner T49	92	88	22	1	13	1
Turner T216	92	91	20	1	25	1
Northrup King KT7	90	88	22	1	20	1

*Soil types on which test fields were located:

	Field 5A	Field 5B
1956	Not harvested	Nicollet loam & Webster silty clay loam
1957	Nicollet loam & Webster silty clay loam	Nicollet loam & Webster silty clay loam
1958	Webster silty clay loam	Webster silty clay loam
1959	Webster silty clay loam	Clarion silt loam

†sx = single cross; 3x = 3-way cross.

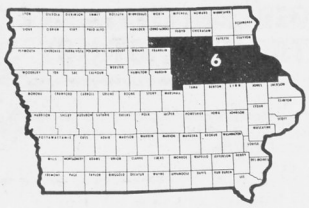
TABLE 6. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 6.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	45	4	3 bu.	5 bu.	7 bu.
3-year average	26	6	2 bu.	4 bu.	6 bu.
4-year average	22	8	2 bu.	4 bu.	5 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**114.4**	**91**	**22.6**	**7.9**	**15.1**	**0.6**
Iowa 4807 (Agron. & USDA)	122	92	24	9	10	1
Funk G-75A	118	92	24	9	12	1
United-Hagie 41A	116	89	24	7	16	2
Pioneer 354	116	93	21	8	12	2
Cornelius 404B	116	89	23	6	12	0
Iowa 4600 (ICIA)	116	90	23	4	18	1
McCurdy 115	116	91	25	4	19	1
Pioneer 347	115	91	21	10	19	0
Northrup King KT6	115	89	23	12	12	0
Pioneer 352	115	90	21	9	12	1
DeKalb 423	114	91	23	8	14	1
P.A.G. 303	114	91	23	10	17	1
Maygold 97	114	92	22	7	12	0
Pioneer 345	114	89	23	7	17	1
Moews 14DR	114	91	21	7	17	1
DeKalb 630	113	89	25	11	19	1
P.A.G. 277	113	91	22	7	24	0
Harper 303H	113	91	22	4	11	1
Maygold 67	112	92	22	9	22	0
Pioneer 371	111	90	19	4	15	1
United-Hagie 47A	111	89	23	10	13	1
Turner T216	109	91	23	11	11	0
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**118.0**	**90**	**22.9**	**6.2**	**13.6**	**0.5**
Iowa 4807 (Agron. & USDA)	126	92	25	7	8	1
Funk G-75A	122	91	24	7	9	1
United-Hagie 41A	121	89	24	6	13	2
Iowa 4600 (ICIA)	121	88	23	3	17	1
DeKalb 423	121	90	24	7	13	0
Pioneer 354	120	92	21	5	11	2
Cornelius 404B	120	90	22	6	10	0
Pioneer 345	120	88	23	6	16	1
Pioneer 347	120	90	22	7	17	0
Northrup King KT6	119	88	24	7	11	0
Moews 500A	119	89	26	3	14	1
DeKalb 630	119	89	25	10	15	1
Maygold 97	119	90	23	7	11	0
Pioneer 371	118	92	20	5	15	1
Pioneer 352	118	90	21	7	11	1
Maygold 67	118	91	23	6	18	0
McCurdy 115	117	89	25	4	17	0
P.A.G. 303	117	89	23	9	15	1
Moews 14DR	117	90	22	8	13	0
P.A.G. 277	116	90	22	5	22	0
Harper 303H	116	90	22	4	9	0
Iowa 4570 (ICIA)	115	89	22	5	8	0
United-Hagie 47A	114	87	23	9	12	1
Northrup King KT2	114	90	23	2	22	0
Northrup King KT5	113	90	23	6	17	0
Turner T216	112	90	23	11	9	0
2-YEAR AVERAGE 1958-1959						
Average all entries	**120.8**	**92**	**22.4**	**6.3**	**17.3**	**0.6**
DeKalb 400 (sx)	134	93	23	4	25	1
Corn King 123	129	96	24	3	12	0
Iowa 4991 (Agron. & USDA)	129	93	23	6	12	1
Iowa 4807 (Agron. & USDA)	127	93	24	10	12	1
Pioneer 354	126	95	21	7	14	3
Iowa 4976 (Agron. & USDA)	124	92	23	5	11	1
Maygold 67	124	92	23	8	23	1
DeKalb 423	124	91	23	9	17	1
Funk G-75A	124	93	23	8	11	1
Iowa 4954 (Agron. & USDA)	124	93	21	5	15	1
DeKalb 444	123	96	24	3	22	1
Cornelius 404B	123	91	22	7	13	0
Genetic Giant 10	122	91	22	3	18	1
Moews 500A	122	92	25	3	18	0
Pioneer 371	122	94	20	7	15	1
Moews 48A	122	95	25	1	13	1
Northrup King KT6	122	90	23	10	15	0
McCurdy 115	122	90	25	3	23	0
Iowa 4600 (ICIA)	122	89	23	3	21	1
United-Hagie 41A	122	91	23	4	18	1
Pioneer 345	121	89	22	10	21	1
Pioneer 352	121	91	21	10	13	1
Supercrost 440	121	90	23	4	25	1
Northrup King KT	121	93	21	9	19	1
DeKalb 630	121	89	25	12	18	1
P.A.G. 277	121	92	22	4	29	0
Maygold 97	120	90	22	11	15	0
Hulting 242	120	92	21	6	13	1
McCurdy 110	119	92	21	4	17	1
P.A.G. 303	119	91	22	11	20	1
Moews 14DR	119	93	22	8	16	0
Genetic Giant 6	119	93	22	8	20	0
Hulting 235	119	93	21	8	18	1
Hulting 238	118	91	21	6	20	1
Pioneer 347	117	92	22	10	22	0
Harper 303H	117	91	21	6	13	0
Genetic Giant 4	116	88	21	3	17	1
Northrup King KT2	116	92	23	2	25	0
Supercrost 438	116	93	23	2	16	0
Iowa 4570 (ICIA)	115	92	22	7	12	0
Genetic Giant 3A	115	90	21	4	19	0
Northrup King KT5	115	92	23	9	20	0
Maygold 98	114	88	23	5	12	1
United-Hagie 47A	114	88	23	11	15	1
Turner T216	113	92	22	11	13	0

*Soil types on which test fields were located:

	Field 6A	Field 6B
1956	Floyd loam	Carrington loam
1957	Floyd loam	Clyde silty clay loam
1958	Floyd loam	Clyde silty clay loam
1959	Floyd loam	Clyde silty clay loam

†sx = single cross; 3x = 3-way cross.

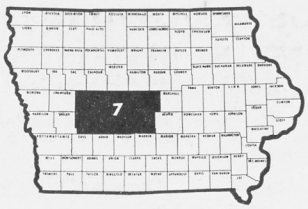
TABLE 7. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 7.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	46	4	4 bu.	7 bu.	11 bu.
3-year average	25	6	3 bu.	6 bu.	8 bu.
4-year average	13	7	3 bu.	5 bu.	8 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**106.5**	**89**	**21.6**	**1.5**	**10.2**	**1.1**
Middlekoop M33 (sx)	113	89	22	1	6	1
Pioneer 301B	110	91	22	2	7	1
Funk G-95A	110	90	22	1	12	1
Maygold 59A	109	91	22	2	10	2
Pioneer 329	108	93	20	0	9	2
Funk G-60A	106	89	21	2	9	2
Moews 520	106	84	23	3	13	1
Iowa 4622 (ICIA)	106	90	21	1	11	1
P.A.G. 383	105	87	22	1	8	1
Farmers 588	104	87	22	3	11	2
Pioneer 318	104	89	21	0	10	1
Maygold 47	103	90	23	3	20	1
Maygold 97	100	90	20	1	8	0
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**109.4**	**88**	**21.9**	**1.8**	**10.0**	**1.0**
Holden H444	119	92	24	0	5	0
Middlekoop M33 (sx)	118	90	22	1	6	1
Funk G-95A	116	91	22	0	11	1
Maygold 59A	116	91	22	2	7	2
DeKalb 3x1 (3x)	112	87	21	7	15	1
Pioneer 329	112	94	20	1	7	2
Iowa 4732 (Agron. & USDA)	112	90	23	1	4	1
Middlekoop M80	112	88	22	0	4	1
Maygold 47	111	91	23	4	21	1
Cornelius C75	111	90	21	0	5	0
DeKalb 3x3 (3x)	110	89	21	4	11	2
Iowa 4622 (ICIA)	110	90	22	1	10	1
Pioneer 301B	109	90	22	2	9	1
Funk G-60A	108	88	21	1	10	1
Turner T49	108	85	24	1	7	0
P.A.G. 383	107	86	21	1	9	1
Moews 520	107	82	23	4	15	2
McCurdy 116	107	89	22	1	9	1
Pioneer 318	107	89	20	0	9	2
Harper 307A	106	82	22	0	7	1
Ohio C92 (ICIA)	105	88	22	4	10	1
Farmers 588	104	85	23	4	10	1
Maygold 97	104	91	20	1	9	1
United-Hagie WW50	104	88	24	2	22	3
Pfister 1875 (sx)	102	86	22	3	16	0
2-YEAR AVERAGE 1958-1959						
Average all entries	**112.9**	**89**	**20.9**	**0.7**	**9.8**	**0.9**
Funk G-95A	127	95	20	0	10	1
Middlekoop M33 (sx)	121	91	21	1	8	1
Maygold 59A	120	90	21	1	7	2
DeKalb 640	120	91	21	0	5	0
Holden H444	120	92	22	0	5	1
Moews CB60A	119	93	24	1	12	1
Holden 44-H	119	91	21	0	5	1
Iowa 4732 (Agron. & USDA)	118	92	22	1	4	1
Moews 519	118	92	22	0	11	0
Pioneer 329	118	96	19	1	8	2
Pioneer 301B	117	93	21	1	10	2
DeKalb 3x1 (3x)	117	88	20	6	20	1
P.A.G. 323	117	90	21	0	10	4
Genetic Giant 13	116	85	21	0	9	0
Middlekoop M80	115	89	21	0	4	1
DeKalb 3x3 (3x)	115	89	20	3	12	2
Pioneer 328 (X5709)	115	92	22	1	2	0
Moews 520	115	87	22	1	16	2
Iowa 4622 (ICIA)	114	91	20	1	11	1
Genetic Giant 10	114	90	21	1	8	1
Northrup King KT9	114	87	22	0	9	1
Funk G-144	113	88	23	1	5	1
Maygold 47	113	93	22	1	24	1
Pioneer 318A	113	88	21	0	10	1
Cornelius C75	112	91	21	0	5	0
Maygold 48	111	88	20	1	7	1
Turner T49	111	88	22	1	7	0
Farmers 588	111	85	21	0	12	1
Funk G-60A	110	90	20	0	10	2
Krizer K-306	110	87	21	1	12	1
McCurdy 116	110	89	21	0	10	1
AES 704 (Agron. & USDA)	109	84	19	0	3	0
Maygold 97	109	93	19	0	12	1
Ohio C92 (ICIA)	109	90	21	2	10	2
P.A.G. 383	109	85	21	0	9	1
Pioneer 318	109	91	19	0	11	2
Middlekoop M81	109	89	23	0	5	1
United-Hagie 52B	108	87	20	0	14	1
McCurdy 113	108	87	20	1	4	0
Genetic Giant 6	107	93	18	0	13	1
United-Hagie WW50	107	90	24	1	26	4
Northrup King KT7	106	92	20	0	5	0
Iowa 4376 (ICIA)	106	87	20	1	7	0
Northrup King KT6	106	88	20	0	10	1
Pfister 1875 (sx)	105	85	21	2	23	0
Harper 307A	103	80	21	0	9	1

*Soil types on which test fields were located:

	Field 7A	Field 7B
1956	Clarion loam	Not harvested
1957	Clarion loam	Nicollet loam & Webster silty clay loam
1958	Clarion loam	Nicollet silt loam
1959	Clarion loam	Nicollet silt loam

†sx = single cross; 3x = 3-way cross.

TABLE 8. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 8.*

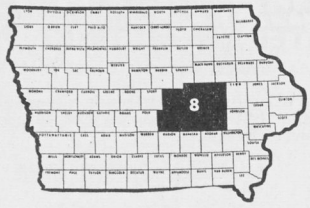
(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong		
			1 in 2	1 in 5	1 in 20
2-year average	50	4	2 bu.	5 bu.	7 bu.
3-year average	28	6	2 bu.	4 bu.	6 bu.
4-year average	19	8	2 bu.	4 bu.	5 bu.

For additional information see text.

Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**124.6**	**92**	**26.2**	**10.2**	**9.0**	**1.0**
Middlekoop M33 (sx)	133	91	27	6	7	2
Funk G-95A	133	95	26	7	10	1
Middlekoop M88	131	93	28	7	6	0
Cornelius C75	129	94	27	2	5	1
P.A.G. 401	126	94	26	15	10	1
AES 801 (ICIA)	126	93	29	13	7	1
McAllister X1001	125	91	26	9	9	1
Maygold 59A	125	91	27	16	9	1
Funk G-76	124	93	26	9	7	1
Iowa 4903 (Agron. & USDA)	124	92	26	10	8	2
Pioneer 301B	124	93	26	13	9	1
Iowa 4517 (ICIA)	123	90	28	12	8	2
McCurdy 115	123	92	26	7	13	1
Funk G-60A	122	92	26	5	8	2
Funk G-75A	122	93	24	14	7	0
McCurdy 987	122	93	26	12	11	1
Maygold 47	121	92	27	11	16	1
Pioneer 345	121	93	23	11	13	2
Northrup King KT6	116	91	24	16	10	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**129.2**	**93**	**26.6**	**13.0**	**9.6**	**0.7**
Middlekoop M33 (sx)	141	93	27	8	9	2
Funk G-95A	139	96	26	10	12	0
Middlekoop M88	137	94	28	10	7	0
Dockendorff 101	135	91	28	11	9	1
Cornelius C75	133	95	28	3	6	1
AES 801 (ICIA)	132	93	29	17	9	0
Pioneer 301B	132	95	26	17	11	1
Harper 360H	131	92	27	5	5	1
Middlekoop M80	130	94	27	8	6	1
Funk G-60A	130	94	26	6	10	1
Iowa 4903 (Agron. & USDA)	130	93	26	13	10	1
Iowa 4517 (ICIA)	130	91	27	16	10	1
Holden H444	129	92	28	6	7	1
Funk G-76	129	94	26	12	9	1
Pioneer 345	128	95	23	15	17	2
P.A.G. 401	127	94	26	20	12	1
Funk G-75A	127	94	24	18	9	0
Iowa 4732 (Agron. & USDA)	127	93	27	16	4	0
Maygold 59A	127	91	27	22	11	1
Turner T49	127	91	29	16	7	0
McAllister 23A	127	90	28	6	5	0
McAllister X1001	127	90	26	12	10	1
McCurdy 115	126	93	26	9	16	1
Pfister 1875 (sx)	125	88	27	28	7	0
Maygold 47	125	92	27	15	17	0
McCurdy 987	125	92	26	16	12	1
Northrup King KT6	122	91	25	21	12	0
Northrup King KT7	120	91	26	11	11	1



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
2-YEAR AVERAGE 1958-1959						
Average all entries	**121.7**	**94**	**26.6**	**18.9**	**13.3**	**0.9**
Middlekoop M33 (sx)	139	94	27	12	13	2
Funk G-95A	135	97	27	14	15	1
DeKalb 633	128	96	27	12	15	1
Dockendorff 101	128	94	27	16	12	1
Middlekoop M88	128	95	28	15	9	1
Cornelius C75	127	95	28	4	8	1
Pioneer 328 (X5709)	126	93	26	26	8	1
AES 801 (ICIA)	126	94	30	25	11	1
Pioneer 301B	126	96	26	25	16	1
DeKalb 640	125	95	27	24	10	1
Hulting 480	125	95	25	23	9	2
Harper 360H	125	92	27	7	7	1
Iowa 4517 (ICIA)	125	94	28	24	12	1
Pioneer 318A	125	94	26	18	18	1
Funk G-60A	124	94	26	9	14	1
Funk G-76	124	96	26	18	13	1
Iowa 4903 (Agron. & USDA)	124	94	27	19	14	1
Genetic Giant 10	124	96	25	15	17	1
McAllister X1001	124	91	26	18	14	1
P.A.G. 401	123	95	26	30	16	1
Middlekoop M80	123	95	26	12	8	1
Hulting 482	123	94	27	12	10	1
McCurdy 115	123	95	27	14	20	1
Funk G-75A	122	96	24	27	12	0
United-Hagie WW40	122	96	26	24	10	1
McAllister 23A	121	91	28	9	7	0
United-Hagie WW50	121	94	29	29	23	2
Maygold 68	121	91	27	7	7	1
Northrup King KT9	121	95	28	23	12	1
Maygold 48	120	92	27	33	16	1
Pioneer 345	120	95	24	23	23	3
DeKalb 803A	120	93	28	22	16	1
Maygold 47	120	94	27	22	24	1
Holden H444	120	91	28	9	10	1
Iowa 4732 (Agron. & USDA)	119	93	27	23	6	0
McCurdy 987	119	93	26	24	16	1
Maygold 59A	119	91	27	33	14	1
P.A.G. 323	119	95	26	14	19	2
Turner T49	119	92	28	25	9	0
Northrup King KT6	119	92	25	31	17	1
Northrup King KT7	117	93	27	17	14	0
Pfister 1875 (sx)	117	89	27	42	11	1
Genetic Giant 6	116	92	25	23	22	1
Hulting 484	116	92	25	17	16	1
Hulting 242	116	94	25	11	13	0
Hulting 481	115	96	25	25	18	1
Middlekoop M81	114	91	28	7	7	1
Cargill 285	113	90	27	10	19	1
McCurdy 113	111	88	26	8	7	1
Supercrost 438	111	93	25	20	12	1

*Soil types on which test fields were located:

	Field 8A	Field 8B
1956	Muscatine silt loam	Muscatine silt loam
1957	Muscatine silt loam	Tama silt loam
1958	Muscatine silt loam	Kato silt loam
1959	Muscatine silt loam	Kato silt loam

†sx = single cross; 3x = 3-way cross.

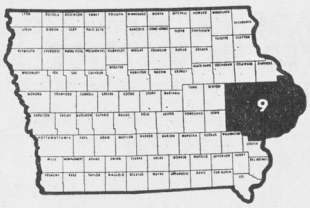
TABLE 9. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 9.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	56	3	3 bu.	6 bu.	9 bu.
3-year average	25	5	2 bu.	5 bu.	7 bu.
4-year average	17	6	2 bu.	4 bu.	6 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**121.0**	**90**	**23.9**	**5.6**	**8.7**	**0.8**
Funk G-95A	127	92	25	6	8	1
Middlekoop M33 (sx)	126	89	24	5	3	1
Pioneer 301B	124	92	23	3	8	1
Iowa 4912 (Agron. & USDA)	124	93	25	4	13	2
Pioneer 329	124	91	22	6	7	1
AES 806 (Isenhart)	124	92	26	8	13	2
Pioneer 345	123	91	22	8	12	2
Maygold 47	122	90	25	6	11	1
Iowa 4622 (ICIA)	121	93	24	3	11	1
Moews 520	120	89	25	11	8	0
Maygold 97	119	88	22	6	8	0
Moews 523	119	91	26	6	9	1
Northrup King KT6	119	91	23	8	8	1
Funk G-60A	118	90	24	4	8	1
Funk G-75A	118	91	23	4	6	0
Maygold 59A	118	88	24	8	7	1
Farmers 537	113	87	25	3	10	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**112.1**	**89**	**24.7**	**7.0**	**8.9**	**0.7**
Middlekoop M33 (sx)	123	89	25	7	3	1
Harper 365H	118	90	23	4	6	0
DeKalb 812	117	89	26	5	5	0
Cornelius C75	116	91	25	1	3	1
Iowa 4912 (Agron. & USDA)	116	91	25	5	13	2
Funk G-95A	115	92	26	7	10	1
Pioneer 301B	115	91	24	4	8	1
Pioneer 329	115	89	22	8	7	2
AES 806 (Isenhart)	115	90	27	10	14	1
Naeve 52	115	87	25	4	14	1
Pioneer 345	114	89	23	10	12	2
Sieben S360	113	93	24	10	9	1
DeKalb 3x1 (3x)	113	88	25	15	9	1
Funk G-60A	112	91	25	4	7	1
Northrup King KT6	112	90	23	10	8	0
Maygold 97	111	86	23	8	8	0
Maygold 47	110	89	26	7	12	1
Moews 520	110	89	26	14	7	0
Maygold 59A	109	88	25	10	8	1
Iowa 4622 (ICIA)	109	91	25	4	12	1
Funk G-75A	108	90	24	5	6	0
McCurdy 987E	106	90	23	5	10	1
Farmers 537	105	88	26	4	11	0
Moews 523	104	88	27	8	9	1
Northrup King KT7	103	88	26	3	12	1

*Soil types on which test fields were located:

	Field 9A	Field 9B
1956	Not harvested	Tama silt loam
1957	Muscatine silt loam	Muscatine silt loam
1958	Not harvested	Tama silt loam
1959	Tama silt loam	Tama silt loam

†sx = single cross; 3x = 3-way cross.

Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
2-YEAR AVERAGE 1958-1959						
Average all entries	**114.8**	**89**	**25.6**	**9.5**	**9.2**	**0.5**
Middlekoop M33 (sx)	129	91	26	10	3	0
Forster 25	126	94	25	5	6	1
Cornelius C60	124	96	26	10	5	0
Harper 365H	124	92	24	7	8	1
Pioneer 329	121	89	23	11	7	2
Pioneer 345	121	92	24	13	15	1
Cornelius C75	121	90	26	2	5	1
Naeve 52	121	89	26	7	14	1
Iowa 4912 (Agron. & USDA)	120	90	26	8	15	2
Funk G-95A	120	93	27	11	12	1
Funk G-60A	120	92	26	6	7	1
United-Hagie 41A	120	91	24	12	13	1
AES 806 (Isenhart)	120	91	28	15	19	1
Pfister 1875 (sx)	119	85	26	30	8	1
Naeve 112	119	94	24	5	13	2
Funk G-144	118	92	28	18	7	0
Maygold 68	118	86	26	4	5	1
DeKalb 633	118	91	28	8	7	1
Genetic Giant 10	118	87	25	5	8	1
Moews 520	118	91	27	21	7	0
Iowa-Missouri 77	117	91	26	8	4	1
Northrup King KT9	117	93	27	15	16	0
Tomco 812	117	95	27	4	3	1
Middlekoop M80	116	90	26	5	4	0
DeKalb 812	116	88	28	7	5	0
Hulting 481	116	86	25	10	7	0
P.A.G. 323	116	88	26	9	13	1
DeKalb 3x1 (3x)	116	85	26	19	11	0
Sieben S360	115	93	25	15	9	1
Hulting 482	115	88	26	7	3	0
Isenhart 807	115	88	26	3	7	1
Northrup King KT6	114	91	24	15	11	1
Moews CB60A	114	84	27	15	5	0
Sieben S320	114	93	24	16	14	1
Hulting 242	113	90	23	4	7	0
Maygold 59A	113	90	26	15	10	1
Maygold 97	113	87	24	12	10	0
Iowa 4622 (ICIA)	113	90	26	6	16	1
Funk G-75A	113	89	25	8	6	0
Holden 228-H	113	91	26	3	8	1
Northrup King KT7	113	88	26	5	9	0
Pioneer 301B	113	90	26	7	9	1
Pioneer 318A	112	88	27	12	5	0
Hulting 484	112	87	25	5	6	0
Maygold 47	111	88	27	11	13	0
Maygold 48	111	85	25	10	8	0
Forster 55	110	84	27	5	6	0
McCurdy 987E	108	89	24	7	12	0
Supercrost 440	107	82	25	15	11	0
Moews 523	106	86	27	12	11	1
Genetic Giant 6	105	85	23	9	17	1
Ohio C92 (ICIA)	105	85	27	10	10	1
Iowa 4376 (ICIA)	104	87	25	11	14	0
Farmers 537	103	86	27	6	14	0
McCurdy 113	102	82	24	4	8	0
Supercrost 680	100	84	25	2	8	0

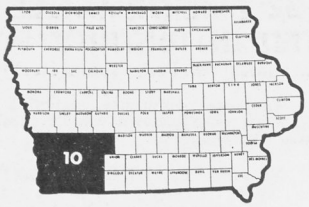
TABLE 10. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 10.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	39	4	3 bu.	6 bu.	8 bu.
3-year average	21	6	2 bu.	4 bu.	6 bu.
4-year average	11	7	2 bu.	4 bu.	7 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**102.5**	**87**	**19.0**	**9.6**	**9.2**	**1.8**
Funk G-95A	109	88	20	9	9	2
Pioneer 318	106	88	19	7	11	1
U. S. 13 (ICIA)	105	87	20	9	10	4
Maygold 47	105	92	20	10	12	2
Maygold 59A	104	88	19	15	10	2
P.A.G. 347	103	86	18	7	9	2
Funk G-60A	101	87	19	4	7	2
McCurdy 987	100	85	18	12	9	1
Maygold 59	99	83	19	14	11	0
Moews 523	98	86	20	13	10	1
Funk G-76	98	89	18	8	5	1
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**111.0**	**87**	**21.5**	**14.0**	**9.9**	**2.1**
Funk G-95A	118	89	21	12	9	3
DeKalb 3x1 (3x)	116	86	21	31	10	1
DeKalb 661	115	85	21	11	9	2
United-Hagie WW50	114	88	23	17	15	4
P.A.G. 401	113	91	20	16	11	3
AES 806 (ICIA)	113	84	23	16	15	5
Maygold 47	113	92	22	13	13	2
Pfister 1876 (sx)	112	84	21	6	9	2
U. S. 13 (ICIA)	112	89	22	12	13	4
Maygold 59A	111	88	21	20	11	2
McCurdy 116	111	86	22	3	6	3
Funk G-60A	110	87	21	5	9	2
AES 801 (ICIA)	110	85	23	8	7	2
Pioneer 318	109	88	20	9	12	2
Turner S53	109	82	24	10	4	1
P.A.G. 347	109	87	20	9	10	3
DeKalb 856	109	87	23	33	10	1
Moews 523	108	88	23	17	8	1
Funk G-76	107	87	21	11	5	1
McCurdy 987	107	85	21	15	10	1
Maygold 59	107	89	21	18	13	1
2-YEAR AVERAGE 1958-1959						
Average all entries	**115.4**	**87**	**20.6**	**17.0**	**6.7**	**1.2**
Funk G-95A	124	89	20	15	5	3
Pioneer 318A	121	91	20	7	7	2
Pioneer X4128	121	89	22	15	6	3
DeKalb 3x1 (3x)	121	89	20	41	6	1
Holden H56 (sx)	121	86	20	3	2	0
DeKalb 661	121	84	20	15	6	1
Moews 524	121	84	21	12	6	1
United-Hagie WW50	121	92	22	22	16	2
Genetic Giant 13	120	85	20	7	6	1
AES 806 (ICIA)	119	85	22	21	11	2
Pfister 1876 (sx)	119	83	20	8	7	1
U. S. 13 (ICIA)	117	89	21	12	10	3
P.A.G. 401	117	91	19	22	9	2
Maygold 47	117	93	21	11	8	1
Iowa 5025 (Agron. & USDA)	116	86	21	5	6	2
Genetic Giant 15	116	86	22	11	6	0
Ohio C92 (ICIA)	116	91	20	29	8	2
McCurdy 116	116	88	20	5	5	1
Turner S53	116	83	21	13	4	1
Funk G-144	115	84	23	21	4	0
Funk G-60A	115	88	21	6	6	2
Maygold 59A	115	87	20	27	11	1
AES 801 (ICIA)	115	88	22	10	5	1
Moews 520	114	86	21	17	11	1
P.A.G. 347	114	87	20	11	8	2
Tekseed TS93	114	85	21	3	5	1
Pioneer 318	114	87	20	14	7	1
Iowa 5116 (Agron. & USDA)	114	88	19	6	12	1
Northrup King KT9	113	90	21	14	4	0
Moews 523	113	89	21	24	6	0
Maygold 59	113	89	19	23	8	0
DeKalb 856	111	85	21	43	5	1
Maygold 37	111	83	21	20	4	2
Funk G-76	110	86	20	14	4	1
United-Hagie WW60	110	84	22	32	7	2
Maygold 48	109	86	19	34	4	1
Northrup King KT7	109	87	20	6	5	1
McCurdy 987	108	84	20	21	7	0
Pfister 1875 (sx)	105	82	20	48	6	1

*Soil types on which test fields were located:

	Field 10A	Field 10B
1956	Not harvested	Marshall silt loam
1957	Marshall silt loam	Marshall silt loam
1958	Marshall silt loam	Judson silt loam
1959	Marshall silt loam	Judson silt loam

†sx = single cross; 3x = 3-way cross.

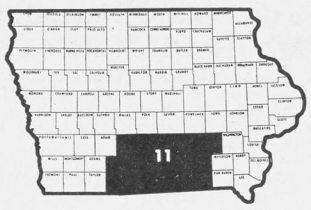
TABLE 11. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 11.*

(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	52	4	3 bu.	5 bu.	8 bu.
3-year average	27	6	2 bu.	4 bu.	6 bu.
4-year average	20	8	2 bu.	4 bu.	6 bu.

For additional information see text.



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**106.6**	**88**	**22.9**	**9.5**	**12.7**	**1.7**
Funk G-95A	113	88	23	10	16	1
Middlekoop M33 (sx)	112	87	23	9	6	4
AES 806 (Isenhart)	110	88	24	10	15	3
Maygold 59A	110	90	22	13	13	2
Moews 520	110	88	24	14	16	1
P.A.G. 444	109	88	26	16	7	1
Pioneer 301B	109	88	23	6	8	1
Pioneer 318	109	87	22	6	13	1
Pioneer 329	108	90	21	6	9	3
Maygold 47	108	90	24	10	21	2
McCurdy 123-2	107	90	23	5	14	4
Funk G-76	106	87	22	10	12	2
U. S. 13 (ICIA)	106	87	23	6	22	2
P.A.G. 381	105	86	22	21	15	1
Moews 524	104	85	24	8	11	1
McCurdy 987	104	86	23	11	15	1
Funk G-60A	103	89	22	5	9	2
Iowa 4565 (ICIA)	102	87	24	7	11	1
United-Hagie 52B	101	85	23	5	10	2
Maygold 59	98	84	22	12	12	0
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**114.4**	**88**	**22.2**	**9.8**	**13.6**	**1.7**
Middlekoop M33 (sx)	122	90	22	12	8	5
Funk G-95A	121	90	22	11	18	1
AES 806 (Isenhart)	119	90	23	12	17	4
Holden H56 (sx)	119	91	23	2	4	1
Moews 520	119	90	23	16	19	1
Maygold 59A	118	91	22	16	15	2
Ohio C92 (Ia.S.H.C.Co.)	118	90	22	11	22	1
P.A.G. 444	117	87	25	19	8	1
Pioneer 301B	117	89	22	5	9	2
Middlekoop M81	117	85	23	2	5	1
Pioneer 329	116	91	21	8	9	3
DeKalb 812	116	88	23	9	8	1
Maygold 47	116	90	23	9	22	2
McCurdy 123-2	115	91	23	6	16	4
Pioneer 318	114	89	21	7	16	2
McCurdy 117	114	88	22	10	21	2
Iowa-Missouri 101	113	85	22	5	14	2
Funk G-76	113	88	21	13	13	2
U. S. 13 (ICIA)	112	87	22	7	24	3
P.A.G. 381	112	85	21	22	16	1
Funk G-60A	111	91	21	6	11	2
Moews 524	111	85	23	9	13	1
McCurdy 987	111	88	22	13	17	1
Iowa 4565 (ICIA)	110	90	23	8	13	1
Turner S53	109	83	24	10	7	1
United-Hagie 52B	109	86	22	5	12	2
Maygold 59	102	83	22	13	13	0
2-YEAR AVERAGE 1958-1959						
Average all entries	**117.6**	**89**	**20.6**	**5.8**	**15.2**	**1.6**
Forster 33	129	88	20	10	11	0
Funk G-95A	128	93	20	5	23	1
Middlekoop M33 (sx)	128	93	20	5	9	5
Iowa 5115 (Agron. & USDA)	127	94	21	6	14	1
Pfister 1876 (sx)	127	90	19	5	12	2
Pioneer 328 (X5709)	124	91	20	9	8	1
Moews 520	124	93	21	9	25	0
Moews CB69A	123	92	19	3	12	2
Maygold 59A	122	93	20	11	16	2
Holden H56 (sx)	122	94	21	0	4	1
Pioneer 318A	122	93	21	8	13	1
AES 806 (Isenhart)	122	91	22	9	20	4
Middlekoop M81	122	85	20	0	6	0
Ohio C92 (Ia.S.H.C.Co.)	121	90	19	8	27	1
DeKalb 640	121	87	21	7	6	0
P.A.G. 444	120	89	22	12	10	1
P.A.G. 323	120	89	21	2	18	1
Funk G-144	120	85	23	12	9	2
DeKalb 633	120	91	21	2	15	1
Pioneer 329	120	92	19	7	10	3
Krizer K-1	119	88	20	3	14	2
Iowa 5036 (Agron. & USDA)	119	91	22	2	22	1
Iowa 5116 (Agron. & USDA)	118	88	20	5	27	1
Maygold 47	118	92	22	6	26	3
Pioneer 301B	118	89	20	4	11	1
McCurdy 123-2	118	92	22	4	19	4
Genetic Giant 15	117	88	23	4	17	1
DeKalb 812	117	90	22	6	8	1
United-Hagie WW60	117	88	23	10	25	2
Funk G-76	116	89	20	8	15	1
Middlekoop M80	116	92	20	2	5	2
McCurdy 117	116	87	20	4	25	2
Northrup King KT9	115	87	21	5	15	1
Pioneer 318	115	89	19	6	17	1
P.A.G. 381	115	87	19	15	19	1
Cargill 335	115	86	22	8	17	5
Funk G-60A	114	93	20	2	11	2
Maygold 37	114	85	21	10	17	3
Genetic Giant 13	114	84	20	4	14	2
Iowa 4565 (ICIA)	114	90	22	5	15	0
Iowa-Missouri 101	114	84	20	4	18	2
McCurdy 987	113	89	20	7	20	1
AES 801 (ICIA)	113	90	23	5	12	2
Isenhart 807	113	90	21	5	13	1
U. S. 13 (ICIA)	113	87	20	2	29	3
Moews 524	112	87	21	6	17	0
Maygold 48	111	84	20	8	13	1
McCurdy 124	110	86	20	5	17	3
Northrup King KT7	109	86	19	4	11	1
Turner S53	108	81	22	4	7	1
United-Hagie 52B	108	86	20	4	15	3
Maygold 59	103	82	20	6	13	0

*Soil types on which test fields were located:

	Field 11A	Field 11B
1956	Sharpsburg silt loam	Mahaska silt loam
1957	Winterset silty clay loam	Mahaska silt loam
1958	Macksburg silt loam	Mahaska silt loam
1959	Macksburg silt loam	Mahaska silt loam

†sx = single cross; 3x = 3-way cross.

TABLE 12. AVERAGE PERFORMANCE OF HYBRIDS TESTED IN DISTRICT 12.*

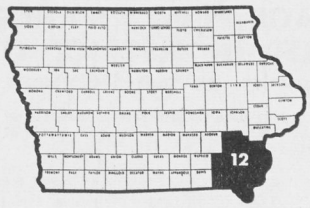
(All hybrids double crosses unless marked otherwise.†)

Bushels per acre necessary for a significant difference, assuming three different chances of being wrong. LSD values shown can be applied to compare any two randomly selected hybrids.

	No. of hybrids	No. of tests	Chances of being wrong 1 in 2	1 in 5	1 in 20
2-year average	39	4	3 bu.	5 bu.	8 bu.
3-year average	21	6	2 bu.	4 bu.	6 bu.
4-year average	14	8	2 bu.	4 bu.	6 bu.

For additional information see text.

Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
4-YEAR AVERAGE 1956-1957-1958-1959						
Average all entries	**112.0**	**88**	**19.8**	**11.0**	**10.2**	**1.7**
Funk G-95A	118	91	19	12	13	1
AES 806 (Isenhart)	118	90	22	13	14	4
Middlekoop M33 (sx)	118	85	20	9	8	2
Maygold 47	114	89	19	11	15	2
Moews 523	112	88	21	16	14	1
Middlekoop M88	112	84	20	10	5	1
Pioneer X3608	112	90	19	10	7	1
Funk G-60A	111	88	19	7	9	1
Moews 524	111	88	21	14	10	1
Pioneer 329	111	90	18	11	7	2
Iowa 4517 (ICIA)	109	88	20	12	7	1
Funk G-76	108	88	19	15	10	1
United-Hagie 52B	108	86	20	7	11	2
McCurdy 123-2	107	85	21	8	15	2
3-YEAR AVERAGE 1957-1958-1959						
Average all entries	**111.2**	**89**	**20.3**	**13.1**	**11.7**	**1.6**
Funk G-95A	119	93	20	15	15	1
Middlekoop M33 (sx)	118	88	20	11	10	2
AES 806 (Isenhart)	118	92	22	16	17	4
Iowa 5043 (Agron. & USDA)	114	90	20	10	9	1
Holden H56 (sx)	114	91	20	9	4	1
Iowa-Missouri 77	113	88	20	9	6	2
United-Hagie WW50	112	91	22	19	22	4
Dittmer 821	112	88	21	16	14	1
Maygold 47	111	90	20	14	17	3
Moews 523	111	88	22	20	16	0
Middlekoop M81	110	87	21	6	4	1
Pioneer 329	110	90	18	13	8	1
Pioneer X3608	110	91	20	13	9	2
Moews 524	110	89	22	19	12	1
Funk G-60A	109	88	20	7	11	1
Middlekoop M88	109	83	21	12	7	1
Funk G-76	108	89	19	18	12	1
DeKalb 812	108	87	21	17	12	2
United-Hagie 52B	107	86	20	8	13	2
McCurdy 123-2	107	86	21	8	19	2
Iowa 4517 (ICIA)	106	88	20	16	9	1



Hybrid	Acre yield bu.	Stand pct.	Moist. pct.	Lodging pct. root	Lodging pct. stalk	Dropped ears pct.
2-YEAR AVERAGE 1958-1959						
Average all entries	**115.8**	**88**	**19.7**	**20.2**	**14.1**	**1.4**
AES 806 (Isenhart)	124	93	21	24	19	4
Funk G-95A	123	92	20	22	18	2
Iowa 5116 (Agron. & USDA)	123	91	19	16	21	1
Funk G-144	123	91	21	26	12	0
Iowa 5043 (Agron. & USDA)	122	94	19	15	13	1
P.A.G. 323	122	91	19	14	19	2
Middlekoop M33 (sx)	122	86	19	17	14	2
United-Hagie WW50	120	94	21	28	25	4
Hulting 482	120	90	19	10	9	1
Isenhart 807	120	91	20	25	11	1
Iowa-Missouri 77	119	89	19	13	8	2
Middlekoop M80	119	90	19	3	9	1
Pioneer 318A	118	90	19	24	13	1
Pfister 1875 (sx)	118	89	19	50	9	0
Holden H56 (sx)	117	91	19	13	5	1
Dittmer 821	117	88	21	24	19	2
AES 801 (ICIA)	116	85	20	17	15	1
Forster 44	116	88	21	24	10	2
Dockendorff X1	115	89	20	9	9	1
Funk G-60A	115	89	19	10	14	1
Maygold 47	115	89	20	20	17	4
Hulting 484	114	88	19	15	17	0
Hulting 686	114	86	19	13	16	1
United-Hagie 52B	114	86	19	12	17	2
Pioneer 329	114	89	18	20	10	1
Pioneer X3608	114	90	19	20	11	1
Funk G-76	114	87	19	26	14	0
Moews 523	113	89	21	30	21	1
DeKalb 812	113	86	21	24	14	2
Middlekoop M81	113	86	20	9	5	1
Moews 520	113	89	20	34	21	1
Maygold 37	112	87	20	31	15	2
Middlekoop M88	111	84	21	18	9	1
McCurdy 123-2	111	83	20	12	22	2
Northrup King KT9	111	89	20	14	18	2
Moews 524	111	89	20	28	16	2
Iowa 4517 (ICIA)	110	87	20	24	10	1
Maygold 48	105	83	19	33	12	1
Northrup King KT7	104	83	19	16	18	1

*Soil types on which test fields were located:

	Field 12A	Field 12B
1956	Taintor silty clay loam	Taintor silty clay loam
1957	Taintor silty clay loam	Taintor silty clay loam
1958	Taintor silty clay loam	Mahaska silt loam
1959	Taintor silty clay loam	Mahaska silt loam

†sx = single cross; 3x = 3-way cross.

INDEX OF ENTRIES

INDEX OF ENTRIES (continued)

Hybrid	District(s)* entered
Moews CB65A	2
Moews CB69A	11
Naeve 52	9
Naeve 112	9
N.I.A.E.A. 333	1, 2, 3A, 3B
Northrup King KO4	1, 2, 3A, 3B
Northrup King KS5	3A, 3B
Northrup King KT	2, 3A, 3B, 6
Northrup King KT1	1, 2
Northrup King KT2	1, 2, 5, 6
Northrup King KT5	1, 2, 5, 6
Northrup King KT6	1, 5, 6, 7, 8, 9
Northrup King KT7	4, 5, 7, 8, 9, 10, 11, 12
Northrup King KT9	4, 7, 8, 9, 10, 11, 12
P.A.G. 62	1, 3A, 3B
P.A.G. 234	1, 3A
P.A.G. 244	2
P.A.G. 277	1, 2, 3A, 3B, 6
P.A.G. 303	1, 6
P.A.G. 323	4, 5, 7, 8, 9, 11, 12
P.A.G. 347	10
P.A.G. 381	4, 5, 11
P.A.G. 383	7
P.A.G. 401	8, 10
P.A.G. 444	11
Pfister 1871	1, 4, 5
Pfister 1875	4, 7, 8, 9, 10, 12
Pfister 1876	10, 11
Pioneer 301B	7, 8, 9, 11
Pioneer 301C	4
Pioneer 318	7, 10, 11
Pioneer 318A	4, 5, 7, 8, 9, 10, 11, 12
Pioneer 328	7, 8, 11
Pioneer 329	4, 5, 7, 9, 11, 12
Pioneer 345	1, 6, 8, 9
Pioneer 347	2, 3A, 3B, 6
Pioneer 349	1, 2, 3A, 3B
Pioneer 352	1, 2, 3A, 3B, 5, 6
Pioneer 354	2, 5, 6
Pioneer 371	1, 2, 3A, 3B, 6
Pioneer 380	3A, 3B
Pioneer X3608	12
Pioneer X4128	10
Powers 400	5
Sar S489	1, 2
Sieben S320	9
Sieben S360	9
Supercrost 438	3A, 6, 8
Supercrost 440	6, 9
Supercrost 680	9
Tekseed TS33	1
Tekseed TS63	4
Tekseed TS73	4
Tekseed TS93	10
Tomco 449	1, 3A, 3B
Tomco 678	5
Tomco 812	9
Turner S53	10, 11
Turner T49	5, 7, 8
Turner T216	5, 6
United-Hagie WW30	1, 2, 3A, 3B, 5
United Hagie 39	1, 2, 3A
United-Hagie WW40	1, 5, 8
United-Hagie 41A	1, 6, 9
United-Hagie 47A	6
United-Hagie WW50	4, 7, 8, 10, 12
United-Hagie 52B	4, 5, 7, 11, 12
United-Hagie WW60	10, 11

*For easy reference the tables giving performance data are assigned numbers corresponding to the district numbers.

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